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10/647,445	08/26/2003	Kil-soo Jung	1293.1994	1650
49455 7590 12/10/2008 STEIN, MCEWEN & BUI, LLP			EXAMINER	
1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005			CHIO, TAT CHI	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/647,445 JUNG ET AL. Office Action Summary Examiner Art Unit TAT CHI CHIO 2621 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3-9.11 and 12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1.3-9.11 and 12 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 11/10/2008.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Information Disclosure Statement(s) (PTO/S5/08)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

 Applicant's arguments filed 9/12/2008 have been fully considered but they are not persuasive.

Applicant argues that Lamkin does not teach second event information that, when read by the ENAV engine, causes the ENAV engine to prohibit informing the AV playback engine, which decodes the AV data, of the occurrence of the key input event.

In response, the examiner respectfully disagrees. Since the navigation buttons, up, left, right, and down, do not work for DVD navigation unless video is playing in full-screen, Lamkin teaches the limitation "a second event information to prohibit informing the AV playback engine, which decodes the AV data, of the occurrence of the key input event". The examiner deems that "when video is not playing in full-screen" is a second event information. When the second event information occurs, the navigation buttons do not work. Therefore, it prohibits informing the AV playback engine of the occurrence of the key input event since the input buttons do not work at all.

Claim Rejections - 35 USC § 101

1 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1, 3-9, 11, and 12 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." In this context, "functional descriptive material" consists of data structures and computer programs which impart functionality when employed as a computer component, (The definition of "data structure" is "a physical or logical relationship among data

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elements, designed to support specific data manipulation functions." The New IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5th ed. 1993).) "Nonfunctional descriptive material" includes but is not limited to music, literary works, and a compilation or mere arrangement of data.

Both types of "descriptive material" are nonstatutory when claimed as descriptive material per se, 33 F.3d at 1360, 31 USPQ2d at 1759. When functional descriptive material is recorded on some computer-readable medium, it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994)(discussing patentable weight of data structure limitations in the context of a statutory claim to a data structure stored on a computer readable medium that increases computer efficiency) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure stored in memory held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361. 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQZd at 1035.

Claims 1, 3-9, 11, and 12 are rejected under 35 U.S.C. 101 because page 22 paragraph 90 of the specification defines the claimed computer-readable information medium as encompassing non-statutory subject matter such as "signal", "carrier wave", or "transmission medium". A "signal" embodying functional descriptive material is neither a process nor a product (i.e., a tangible "thing") and therefore does not fall within one of the four statutory classes of 35 U.S.C. 101. Rather, "signal" is a form of energy, in the absence of any physical structure or tangible material.

Because the full scope of the claim as properly read in light of the disclosure encompasses non-statutory subject matter, the claim as a whole is non-statutory. The examiner suggests amending the claim to include the disclosed tangible computer readable media, while at the same time excluding the intangible media such as signals, carrier wave, etc. Any amendment to the claim should be commensurate with its corresponding disclosure.

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Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 1, 3-9, 11, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Lamkin et al. (US 7,178,106 B2).

Consider claims 1 and 12, Lamkin et al. teach an computer-readable information storage medium comprising: AV data (Fig. 7); and a markup document utilized to reproduce the AV data in an interactive mode, wherein the markup document comprises first event information that, when read by an ENAV engine, causes the ENAV engine to inform, by default, an AV playback engine, which plays back the AV data, of an occurrence of a key input event corresponding to a user action (col. 19, lines 44-47), and second event information that, when read by an ENAV engine, causes the ENAV engine to prohibit informing the AV playback engine, which decodes the AV data, of the occurrence of the key input event (Table A.1.41 and col. 19, lines 51-54); and wherein the first event information comprises event registration information to check whether the user performed the action and event handling information to handle the event by controlling an operation of the AV playback engine when the key input event occurs (Table A.1.41).

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Consider claim 3, Lamkin et al. teach the computer-readable information storage medium, wherein the event registration information is recorded using an onclick event defined in the markup document, and the event handling information is created by a function that allows the AV playback engine to perform an operation corresponding to the on-click event (col. 8, lines 46-59).

Consider claim 4, Lamkin et al. teach the computer-readable information storage medium of claim 2, wherein the event registration information is recorded using a key input event listener to check whether the key input event occurs, and the event handling information is recorded using a key input event handler to control the operation of the AV playback engine (col. 8, lines 46-59 and Table A.1.41).

Consider claim 5, Lamkin et al. teach the computer-readable information storage medium, wherein the AV playback engine is informed of the occurrence of the key input event via an ENAV engine that interprets and executes the markup document (col. 11. lines 56-67 and col. 12. lines 1-15).

Consider claim 6, Lamkin et al. teach the computer-readable information storage medium, wherein the AV playback engine is informed of the occurrence of the key input event via an interface handler in an ENAV engine that interprets and executes the markup document (702 and 704 of Fig. 7).

Consider claim 7, Lamkin et al. teach the computer-readable information storage medium, wherein the interface handler transmits a playback control command to implement a predetermined operation of the AV playback engine corresponding to the key input event (col. 19, lines 44-47).

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Consider claim 8, Lamkin et al. teach the computer-readable information storage medium, wherein the first event information is written using at least one of script language and markup language (col. 19, lines 44-47).

Consider claim 9, Lamkin et al. teach the computer-readable information storage medium, wherein the first event information is written using at least one of JavaScript language and XML language (740 of Fig. 7).

Consider claim 11, Lamkin et al. teach the computer-readable information storage medium, wherein the second event information is recorded using an Application Program Interface (API) (col. 11, lines 56-67 and col. 12, lines 1-15).

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHI CHIO whose telephone number is (571)272Art Unit: 2621

9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on (571)-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./ Examiner, Art Unit 2621

/Thai Tran/ Supervisory Patent Examiner, Art Unit 2621